

In the Claims:

Please amend claim 4 as follows:

1. (Original) A treatment for a patient suffering from a brain or spinal cord injury or neurodegenerative disease comprising the steps of: intravascular administration or transplanting of cultured bone marrow cells into the brain or spinal cord of the patient in need; and generating new neurons in the brain of the patient.
2. (Original) A method of activating the differentiation of neural cells in an injured brain or spinal cord comprising the steps of: transplanting bone marrow cells adjacent to the injured brain cells; and activating the endogenous central nervous system stem cells to differentiate into neurons.
3. (Original) A method of treating injured brain or spinal cord cells comprising the steps of: transplanting cultured bone marrow cells near the injured brain cells; and generating new neurons at the location of transplantation or of intravascular (intraarterial, intravenous) injection of cultured bone marrow cells.
4. (Currently Amended) AThe method of treating injured brain or spinal cord in a patient by injecting or transplanting a composite of mesenchymal stem cells (MSCs)MSC and neurospheres into said patient.